

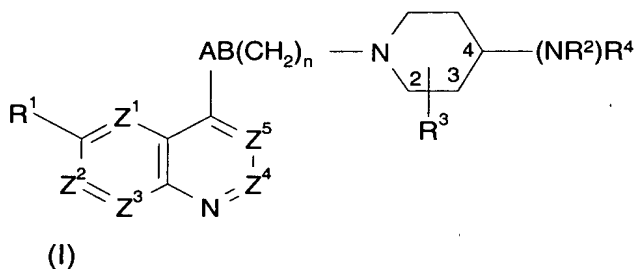
### **Amendments to the claims**

This listing of claims will replace all prior versions, and listings, of claims in the application:

## Claims

**What is claimed is:**

1. (Original) a compound of formula (I) or a pharmaceutically acceptable derivative thereof:



wherein:

one of Z<sup>1</sup>, Z<sup>2</sup>, Z<sup>3</sup>, Z<sup>4</sup> and Z<sup>5</sup> is N, one is CR<sup>1a</sup> and the remainder are CH, or one or two of Z<sup>1</sup>, Z<sup>2</sup>, Z<sup>3</sup>, Z<sup>4</sup> and Z<sup>5</sup> are independently CR<sup>1a</sup> and the remainder are CH;

R<sup>1</sup> and R<sup>1a</sup> are independently hydrogen; hydroxy; (C<sub>1-6</sub>)alkoxy optionally substituted by (C<sub>1-6</sub>)alkoxy, amino, piperidyl, guanidino or amidino any of which is optionally N-substituted by one or two (C<sub>1-6</sub>)alkyl, acyl or (C<sub>1-6</sub>)alkylsulphonyl groups, CONH<sub>2</sub>, hydroxy, (C<sub>1-6</sub>)alkylthio, heterocyclylthio, heterocycloxy, arylthio, aryloxy, acylthio, acyloxy or (C<sub>1-6</sub>)alkylsulphonyloxy; (C<sub>1-6</sub>)alkoxy-substituted(C<sub>1-6</sub>)alkyl; halogen; (C<sub>1-6</sub>)alkyl; (C<sub>1-6</sub>)alkylthio; trifluoromethyl; trifluoromethoxy; nitro; azido; acyl; acyloxy; acylthio; (C<sub>1-6</sub>)alkylsulphonyl; (C<sub>1-6</sub>)alkylsulphoxide; arylsulphonyl; arylsulphoxide or an amino, piperidyl, guanidino or amidino group optionally N-substituted by one or two (C<sub>1-6</sub>)alkyl, acyl or (C<sub>1-6</sub>)alkylsulphonyl groups;

or when Z<sup>5</sup> is CR<sup>1a</sup>, R<sup>1a</sup> may instead be cyano, hydroxymethyl or carboxy;

or R<sup>1</sup> and R<sup>1a</sup> on adjacent positions may together form ethylenedioxy;

provided that when Z<sup>1</sup>, Z<sup>2</sup>, Z<sup>3</sup>, Z<sup>4</sup> and Z<sup>5</sup> are CR<sup>1a</sup> or CH, then R<sup>1</sup> is not hydrogen;

R<sup>2</sup> is hydrogen, or (C<sub>1-4</sub>)alkyl or (C<sub>2-4</sub>)alkenyl optionally substituted with 1 to 3 groups selected from:

amino optionally substituted by one or two (C<sub>1-4</sub>)alkyl groups; carboxy; (C<sub>1-4</sub>)alkoxycarbonyl; (C<sub>1-4</sub>)alkylcarbonyl; (C<sub>2-4</sub>)alkenyloxycarbonyl; (C<sub>2-4</sub>)alkenylcarbonyl; aminocarbonyl wherein the amino group is optionally substituted by hydroxy, (C<sub>1-4</sub>)alkyl, hydroxy(C<sub>1-4</sub>)alkyl, aminocarbonyl(C<sub>1-4</sub>)alkyl, (C<sub>2-4</sub>)alkenyl, (C<sub>1-4</sub>)alkylsulphonyl, trifluoromethylsulphonyl, (C<sub>2-4</sub>)alkenylsulphonyl, (C<sub>1-4</sub>)alkoxycarbonyl, (C<sub>1-4</sub>)alkylcarbonyl, (C<sub>2-4</sub>)alkenyloxycarbonyl or (C<sub>2-4</sub>)alkenylcarbonyl; cyano; tetrazolyl; 2-oxo-oxazolidinyl optionally substituted by R<sup>10</sup>; 3-hydroxy-3-cyclobutene-1,2-dione-4-yl; 2,4-thiazolidinedione-5-yl; tetrazol-5-ylaminocarbonyl; 1,2,4-triazol-5-yl optionally substituted by R<sup>10</sup>; 5-oxo-1,2,4-oxadiazol-3-yl; halogen; (C<sub>1-4</sub>)alkylthio; trifluoromethyl; hydroxy optionally substituted by (C<sub>1-4</sub>)alkyl, (C<sub>2-4</sub>)alkenyl, (C<sub>1-4</sub>)alkoxycarbonyl, (C<sub>1-4</sub>)alkylcarbonyl, (C<sub>2-4</sub>)alkenyloxycarbonyl, (C<sub>2-4</sub>)alkenylcarbonyl; oxo; (C<sub>1-4</sub>)alkylsulphonyl; (C<sub>2-4</sub>)alkenylsulphonyl; or (C<sub>1-4</sub>)aminosulphonyl wherein the amino group is optionally substituted by (C<sub>1-4</sub>)alkyl or (C<sub>2-4</sub>)alkenyl;

R<sup>3</sup> is in the 2-, 3- or 4-position and is trifluoromethyl or is in the 2-position and is oxo; or

R<sup>3</sup> is in the 3-position and is fluorine or amino wherein the amino group is optionally substituted by: hydroxy; (C<sub>1-6</sub>)alkylsulphonyl; trifluoromethylsulphonyl; (C<sub>2-6</sub>)alkenylsulphonyl; (C<sub>1-6</sub>)alkylcarbonyl; (C<sub>2-6</sub>)alkenylcarbonyl; (C<sub>1-6</sub>)alkoxycarbonyl; (C<sub>2-6</sub>)alkenyloxycarbonyl; (C<sub>1-6</sub>)alkyl; or (C<sub>2-6</sub>)alkenyl; wherein a (C<sub>1-6</sub>)alkyl or (C<sub>2-6</sub>)alkenyl moiety may be optionally substituted with up to 2 groups R<sup>12</sup> independently selected from:

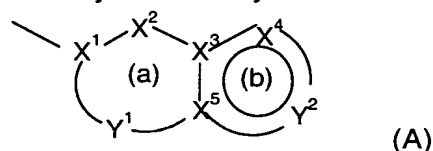
halogen; (C<sub>1-6</sub>)alkylthio; trifluoromethyl; cyano; carboxy; tetrazolyl; 2-oxo-oxazolidinyl; 3-hydroxy-3-cyclobutene-1,2-dione-4-yl; 2,4-thiazolidinedione-5-yl; tetrazol-5-ylaminocarbonyl; 1,2,4-triazol-5-yl optionally substituted by R<sup>10</sup>; or 5-oxo-1,2,4-oxadiazol-3-yl; (C<sub>1-6</sub>)alkoxycarbonyl; (C<sub>1-6</sub>)alkylcarbonyl; (C<sub>2-6</sub>)alkenyloxycarbonyl; (C<sub>2-6</sub>)alkenylcarbonyl; hydroxy optionally substituted by (C<sub>1-6</sub>)alkyl, (C<sub>2-6</sub>)alkenyl, (C<sub>1-6</sub>)alkylcarbonyl, (C<sub>2-6</sub>)alkenylcarbonyl or aminocarbonyl wherein the amino group is optionally substituted by (C<sub>1-6</sub>)alkyl, (C<sub>2-6</sub>)alkenyl; amino optionally mono- or disubstituted by (C<sub>1-6</sub>)alkoxycarbonyl, (C<sub>1-</sub>

$(C_1-6)$ alkylcarbonyl,  $(C_2-6)$ alkenyloxycarbonyl,  $(C_2-6)$ alkenylcarbonyl,  $(C_1-6)$ alkyl,  $(C_2-6)$ alkenyl,  $(C_1-6)$ alkylsulphonyl,  $(C_2-6)$ alkenylsulphonyl or aminocarbonyl wherein the amino group is optionally substituted by  $(C_1-6)$ alkyl or  $(C_2-6)$ alkenyl; in addition when  $R^3$  is disubstituted with a hydroxy or amino containing substituent and carboxy containing substituent these may together form a cyclic ester or amide linkage, respectively;

$R^4$  is a group  $-U-R^5$  where

U is selected from CO, SO<sub>2</sub> and CH<sub>2</sub> and

$R^5$  is an optionally substituted bicyclic carbocyclic or heterocyclic ring system (A):



containing up to four heteroatoms in each ring in which

ring (a) is aromatic or non aromatic;

$X^1$  is C when part of an aromatic ring or CR<sup>14</sup> when part of a non aromatic ring;

$X^2$  is N, NR<sup>13</sup>, O, S(O)<sub>x</sub>, CO or CR<sup>14</sup> when part of an aromatic or non-aromatic ring or may in addition be CR<sup>14</sup>R<sup>15</sup> when part of a non aromatic ring;

$X^4$  is N, NR<sup>13</sup>, O, S(O)<sub>x</sub>, CO or CR<sup>14</sup>;

$X^3$  and  $X^5$  are independently N or C;

$Y^1$  is a 1 to 3 atom linker group each atom of which is independently selected from N, NR<sup>13</sup>, O, S(O)<sub>x</sub>, CO and CR<sup>14</sup> when part of an aromatic or non-aromatic ring or may additionally be CR<sup>14</sup>R<sup>15</sup> when part of a non aromatic ring,

$Y^2$  is a 2 or 3 atom linker group completing an aromatic ring, each atom of  $Y^2$  being independently selected from N, NR<sup>13</sup>, O, S(O)<sub>x</sub>, CO and CR<sup>14</sup>;

each of R<sup>14</sup> and R<sup>15</sup> is independently selected from: H;  $(C_1-4)$ alkylthio; halo; carboxy $(C_1-4)$ alkyl; halo $(C_1-4)$ alkoxy; halo $(C_1-4)$ alkyl;  $(C_1-4)$ alkyl;  $(C_2-4)$ alkenyl;  $(C_1-4)$ alkoxycarbonyl; formyl;  $(C_1-4)$ alkylcarbonyl;  $(C_2-4)$ alkenyloxycarbonyl;  $(C_2-4)$ alkenylcarbonyl;  $(C_1-4)$ alkylcarbonyloxy;  $(C_1-4)$ alkoxycarbonyl $(C_1-4)$ alkyl; hydroxy; hydroxy $(C_1-4)$ alkyl; mercapto $(C_1-4)$ alkyl;  $(C_1-4)$ alkoxy; nitro; cyano; carboxy; amino or aminocarbonyl optionally substituted as for corresponding substituents in R<sup>3</sup>;  $(C_1-4)$ alkylsulphonyl;  $(C_2-4)$ alkenylsulphonyl; or aminosulphonyl wherein the amino group is optionally mono- or di-substituted by  $(C_1-4)$ alkyl or  $(C_2-4)$ alkenyl; aryl; aryl $(C_1-4)$ alkyl; aryl $(C_1-4)$ alkoxy or

R<sup>14</sup> and R<sup>15</sup> may together represent oxo;

each R<sup>13</sup> is independently H; trifluoromethyl; (C<sub>1-4</sub>)alkyl optionally substituted by hydroxy, (C<sub>1-6</sub>)alkoxy, (C<sub>1-6</sub>)alkylthio, carboxy, halo or trifluoromethyl; (C<sub>2-4</sub>)alkenyl; aryl; aryl (C<sub>1-4</sub>)alkyl; arylcarbonyl; heteroarylcarbonyl; (C<sub>1-4</sub>)alkoxycarbonyl; (C<sub>1-4</sub>)alkylcarbonyl; formyl; (C<sub>1-6</sub>)alkylsulphonyl; or aminocarbonyl wherein the amino group is optionally substituted by (C<sub>1-4</sub>)alkoxycarbonyl, (C<sub>1-4</sub>)alkylcarbonyl, (C<sub>2-4</sub>)alkenyloxycarbonyl, (C<sub>2-4</sub>)alkenylcarbonyl, (C<sub>1-4</sub>)alkyl or (C<sub>2-4</sub>)alkenyl and optionally further substituted by (C<sub>1-4</sub>)alkyl or (C<sub>2-4</sub>)alkenyl;

n is 0 or 1;

each x is independently 0, 1 or 2

A is NR<sup>11</sup>, O or CR<sup>6</sup>R<sup>7</sup> and B is NR<sup>11</sup>, O, SO<sub>2</sub> or CR<sup>8</sup>R<sup>9</sup> and wherein:  
each of R<sup>6</sup>, R<sup>7</sup>, R<sup>8</sup> and R<sup>9</sup> is independently selected from: hydrogen; (C<sub>1-6</sub>)alkoxy; (C<sub>1-6</sub>)alkylthio; halo; trifluoromethyl; azido; (C<sub>1-6</sub>)alkyl; (C<sub>2-6</sub>)alkenyl; (C<sub>1-6</sub>)alkoxycarbonyl; (C<sub>1-6</sub>)alkylcarbonyl; (C<sub>2-6</sub>)alkenyloxycarbonyl; (C<sub>2-6</sub>)alkenylcarbonyl; hydroxy, amino or aminocarbonyl optionally substituted as for corresponding substituents in R<sup>3</sup>; (C<sub>1-6</sub>)alkylsulphonyl; (C<sub>2-6</sub>)alkenylsulphonyl; or aminosulphonyl wherein the amino group is optionally substituted by (C<sub>1-6</sub>)alkyl or (C<sub>2-6</sub>)alkenyl;

or when n=1 R<sup>6</sup> and R<sup>8</sup> together represent a bond and R<sup>7</sup> and R<sup>9</sup> are as above defined;

or R<sup>6</sup> and R<sup>7</sup> or R<sup>8</sup> and R<sup>9</sup> together represent oxo;

provided that:

when A is NR<sup>11</sup>, B is not NR<sup>11</sup> or O;

when A is CO, B is not CO, O or SO<sub>2</sub>;

when n is 0 and A is NR<sup>11</sup>, CR<sup>8</sup>R<sup>9</sup> can only be CO;

when A is CR<sup>6</sup>R<sup>7</sup> and B is SO<sub>2</sub>, n is 0;

when n is 0, B is not NR<sup>11</sup> or O or R<sup>8</sup> and R<sup>9</sup> are not optionally substituted hydroxy or amino;

when A is O, B is not NR<sup>11</sup>, O, SO<sub>2</sub> or CO and n=1; and

when A-B is CR<sup>7</sup>=CR<sup>9</sup>, n is 1

R<sup>10</sup> is selected from (C<sub>1-4</sub>)alkyl; (C<sub>2-4</sub>)alkenyl and aryl any of which may be optionally substituted by a group R<sup>12</sup> as defined above; carboxy; aminocarbonyl

wherein the amino group is optionally substituted by hydroxy, (C<sub>1-6</sub>)alkyl, (C<sub>2-6</sub>)alkenyl, (C<sub>1-6</sub>)alkylsulphonyl, trifluoromethylsulphonyl, (C<sub>2-6</sub>)alkenylsulphonyl, (C<sub>1-6</sub>)alkoxycarbonyl, (C<sub>1-6</sub>)alkylcarbonyl, (C<sub>2-6</sub>)alkenyloxycarbonyl or (C<sub>2-6</sub>)alkenylcarbonyl and optionally further substituted by (C<sub>1-6</sub>)alkyl or (C<sub>2-6</sub>)alkenyl; (C<sub>1-6</sub>)alkylsulphonyl; trifluoromethylsulphonyl; (C<sub>2-6</sub>)alkenylsulphonyl; (C<sub>1-6</sub>)alkoxycarbonyl; (C<sub>1-6</sub>)alkylcarbonyl; (C<sub>2-6</sub>)alkenyloxycarbonyl; and (C<sub>2-6</sub>)alkenylcarbonyl; and

R<sup>11</sup> is hydrogen; trifluoromethyl, (C<sub>1-6</sub>)alkyl; (C<sub>2-6</sub>)alkenyl; (C<sub>1-6</sub>)alkoxycarbonyl; (C<sub>1-6</sub>)alkylcarbonyl; or aminocarbonyl wherein the amino group is optionally substituted by (C<sub>1-6</sub>)alkoxycarbonyl, (C<sub>1-6</sub>)alkylcarbonyl, (C<sub>2-6</sub>)alkenyloxycarbonyl, (C<sub>2-6</sub>)alkenylcarbonyl, (C<sub>1-6</sub>)alkyl or (C<sub>2-6</sub>)alkenyl and optionally further substituted by (C<sub>1-6</sub>)alkyl or (C<sub>2-6</sub>)alkenyl;

or where one of R<sup>3</sup> and R<sup>6</sup>, R<sup>7</sup>, R<sup>8</sup> or R<sup>9</sup> contains a carboxy group and the other contains a hydroxy or amino group they may together form a cyclic ester or amide linkage.

2. (Original) A compound according to claim 1 wherein Z<sup>5</sup> is CH, C-Cl or N, Z<sup>3</sup> is CH or CF and Z<sup>1</sup>, Z<sup>2</sup> and Z<sup>4</sup> are each CH, or Z<sup>1</sup> is N, Z<sup>3</sup> is CH and Z<sup>2</sup> and Z<sup>4</sup> are each CH and Z<sup>5</sup> is CH or C-Cl.

3. (Currently Amended) A compound according to ~~any preceding claim~~ claim 1 wherein R<sup>1</sup> is methoxy and R<sup>1a</sup> is H or when Z<sup>3</sup> is CR<sup>1a</sup> it may be C-F or when Z<sup>5</sup> is CR<sup>1a</sup> it may be C-F or C-Cl.

4. (Currently Amended) A compound according to ~~any preceding claim~~ claim 1 wherein R<sup>2</sup> is hydrogen, carboxymethyl, hydroxyethyl, aminocarbonylmethyl, ethoxycarbonylmethyl, ethoxycarbonylallyl or carboxyallyl.

5. (Currently Amended) A compound according to ~~any preceding claim~~ claim 1 wherein R<sup>3</sup> is CF<sub>3</sub>, fluoro, oxo or amino unsubstituted or substituted by (C<sub>1-6</sub>)alkyl or (C<sub>2-6</sub>)alkenyl.

6. (Currently Amended) A compound according to ~~any preceding claim~~ wherein n is 0, A-B is CHOH-CH<sub>2</sub>, NR<sup>11</sup>-CH<sub>2</sub>, NR<sup>11</sup>-CO or CH<sub>2</sub>-CH<sub>2</sub> and R<sup>11</sup> is hydrogen or (C<sub>1-4</sub>)alkyl.

7. (Currently Amended) A compound according to ~~any preceding claim~~ claim 1 wherein U is CH<sub>2</sub> and R<sup>5</sup> is an aromatic heterocyclic ring (A) having 1-4 heteroatoms of which one is N or NR<sup>13</sup>, R<sup>13</sup> is H if in ring (a) or in addition (C<sub>1-4</sub>)alkyl if in ring (b), R<sup>14</sup> and R<sup>15</sup> are independently selected from hydrogen, halo, hydroxy, (C<sub>1-4</sub>)alkyl, (C<sub>1-4</sub>)alkoxy, trifluoromethoxy, nitro, cyano, aryl(C<sub>1-4</sub>)alkoxy and (C<sub>1-4</sub>)alkylsulphonyl.

8. (Currently Amended) A compound according to ~~any of claims 1 to 6~~ claim 1 wherein R<sup>5</sup> is 4,6-difluoro-indol-2-yl, 1H-pyrrolo[2,3-b]-pyridin-2-yl, 1H-pyrrolo[3,2-b]-pyridin-2-yl, 8-hydroxy-quinolin-2-yl, quinoxalin-2-yl, benzimidazol-2-yl, benzo[1,2,3]-thiadiazol-5-yl, benzothiophen-2-yl, 4,6-difluoro-1H-benzimidazol-2-yl, benzothiazole-5-yl, 3-(R)-2,3-dihydro-[1,4]dioxino[2,3-b]pyridin-3-yl or [1,2,3]thiadiazolo[5,4-b]pyridin-6-yl.

9. (Original) A compound according to claim 1 selected from:  
6-[(((3*S*,4*R*)-3-fluoro-1-[(*R*)-2-hydroxy-2-(6-methoxyquinolin-4-yl)-ethyl]piperidin-4-ylamino)methyl)]-[1,2,3]thiadiazolo[5,4-b]pyridine and 6-[(((3*R*,4*S*)-3-fluoro-1-[(*R*)-2-hydroxy-2-(6-methoxyquinolin-4-yl)-ethyl]piperidin-4-ylamino)methyl)]-[1,2,3]thiadiazolo[5,4-b]pyridine;  
5-[(((3*S*,4*R*)-3-fluoro-1-[(*R*)-2-hydroxy-2-(6-methoxyquinolin-4-yl)-ethyl]piperidin-4-ylamino)methyl)]-benzo[1,2,3]thiadiazole and 5-[(((3*R*,4*S*)-3-fluoro-1-[(*R*)-2-hydroxy-2-(6-methoxyquinolin-4-yl)-ethyl]piperidin-4-ylamino)methyl)]-benzo[1,2,3]thiadiazole;  
{3-Fluoro-1-[(*R*)-2-hydroxy-2-(6-methoxy-[1,5]naphthyridin-4-yl)-ethyl]-piperidin-4-yl}-[1,2,3]thiadiazolo[5,4-b]pyridin-6-ylmethyl-amine Diastereoisomer 1;  
or a pharmaceutically acceptable derivative thereof.

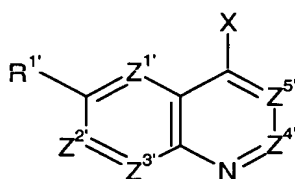
10. (Original) A method of treatment of bacterial infections in mammals, particularly in man, which method comprises the administration to a mammal in need of such treatment an effective amount of a compound according to claim 1.

11. (Cancelled)

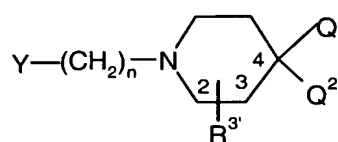
12. (Original) A pharmaceutical composition comprising a compound according to claim 1, and a pharmaceutically acceptable carrier.

13. (Original) A process for preparing compounds according to claim 1, which process comprises:

reacting a compound of formula (IV) with a compound of formula (V):



(IV)



(V)

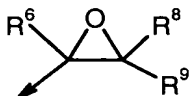
wherein n is as defined in formula (I); Z<sup>1'</sup>, Z<sup>2'</sup>, Z<sup>3'</sup>, Z<sup>4'</sup>, Z<sup>5'</sup>, R<sup>1'</sup> and R<sup>3'</sup> are Z<sup>1</sup>, Z<sup>2</sup>, Z<sup>3</sup>, Z<sup>4</sup>, Z<sup>5</sup>, R<sup>1</sup> and R<sup>3</sup> as defined in formula (I) or groups convertible thereto; Q<sup>1</sup> is NR<sup>2'</sup>R<sup>4'</sup> or a group convertible thereto wherein R<sup>2'</sup> and R<sup>4'</sup> are R<sup>2</sup> and R<sup>4</sup> as defined in formula (I) or groups convertible thereto and Q<sup>2</sup> is H or R<sup>3'</sup> or Q<sup>1</sup> and Q<sup>2</sup> together form an optionally protected oxo group;

and X and Y may be the following combinations:

- (i) X is A'-COW, Y is H and n is 0;
- (ii) X is CR<sup>6</sup>=CR<sup>8</sup>R<sup>9</sup>, Y is H and n is 0;
- (iii) X is oxirane, Y is H and n is 0;
- (iv) X is N=C=O and Y is H and n is 0;
- (v) one of X and Y is CO<sub>2</sub>R<sup>Y</sup> and the other is CH<sub>2</sub>CO<sub>2</sub>R<sup>X</sup>;
- (vi) X is CHR<sup>6</sup>R<sup>7</sup> and Y is C(=O)R<sup>9</sup>;
- (vii) X is CR<sup>7</sup>=PR<sup>Z3</sup> and Y is C(=O)R<sup>9</sup> and n=1;
- (viii) X is C(=O)R<sup>7</sup> and Y is CR<sup>9</sup>=PR<sup>Z3</sup> and n=1;
- (ix) Y is COW and X is NHR<sup>11'</sup> or NR<sup>11'</sup>COW and n=0 or 1 or when n=1 X is COW and Y is NHR<sup>11'</sup> or NR<sup>11'</sup>COW;
- (x) X is C(O=)R<sup>6</sup> and Y is NHR<sup>11'</sup> or X is NHR<sup>11'</sup> and Y is C(=O)R<sup>8</sup> and n=1;
- (xi) X is NHR<sup>11'</sup> and Y is CR<sup>8</sup>R<sup>9</sup>W and n=1;
- (xii) X is CR<sup>6</sup>R<sup>7</sup>W and Y is NHR<sup>11'</sup> or OH and n=1;
- (xiii) X is CR<sup>6</sup>R<sup>7</sup>SO<sub>2</sub>W and Y is H and n=0;
- (xiv) X is W or OH and Y is CH<sub>2</sub>OH and n=1;
- (xv) X is NHR<sup>11'</sup> and Y is SO<sub>2</sub>W or X is NR<sup>11'</sup>SO<sub>2</sub>W and Y is H, and n=0;

- (xvi) X is  $\text{NR}^{11'}\text{COCH}_2\text{W}$  or  $\text{NR}^{11'}\text{SO}_2\text{CH}_2\text{W}$  and Y is H and  $n=0$ ;  
(xvii) X is W and Y is  $\text{CONHR}^{11'}$ ;

in which W is a leaving group, e.g. halo or imidazolyl;  $\text{R}^X$  and  $\text{R}^Y$  are  $(\text{C}_1\text{-}_6)\text{alkyl}$ ;  $\text{R}^Z$  is aryl or  $(\text{C}_1\text{-}_6)\text{alkyl}$ ;  $\text{A}'$  and  $\text{NR}^{11'}$  are A and  $\text{NR}^{11}$  as defined in formula (I), or groups convertible thereto; and oxirane is:



wherein  $\text{R}^6$ ,  $\text{R}^8$  and  $\text{R}^9$  are as defined in formula (I);  
and thereafter optionally or as necessary converting  $\text{Q}^1$  and  $\text{Q}^2$  to  $\text{NR}^{2'}\text{R}^{4'}$ ;  
converting  $\text{A}'$ ,  $\text{Z}^{1'}$ ,  $\text{Z}^{2'}$ ,  $\text{Z}^{3'}$ ,  $\text{Z}^{4'}$ ,  $\text{Z}^{5'}$ ,  $\text{R}^{1'}$ ,  $\text{R}^{2'}$ ,  $\text{R}^{3'}$ ,  $\text{R}^{4'}$  and  $\text{NR}^{11'}$  to A,  $\text{Z}^1$ ,  $\text{Z}^2$ ,  $\text{Z}^3$ ,  $\text{Z}^4$ ,  $\text{Z}^5$ ,  $\text{R}^1$ ,  $\text{R}^2$ ,  $\text{R}^3$ ,  $\text{R}^4$  and  $\text{NR}^{11'}$ ; converting A-B to other A-B, interconverting  $\text{R}^1$ ,  $\text{R}^2$ ,  $\text{R}^3$  and/or  $\text{R}^4$ , and/or forming a pharmaceutically acceptable derivative thereof.